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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/840,022	05/05/2004	David B. Naughton	12353-004	9650
757 7590 11/13/2008 BRINKS HOFER GILSON & LIONE P.O. BOX 10395 CHICAGO, IL 60610				
EXAMINER HUSON, MONICA ANNE				
ART UNIT		PAPER NUMBER		
1791				
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11/13/2008		PAPER		

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary

Application No.

10/840,022

Applicant(s)

NAUGHTON, DAVID B.

Examiner

MONICA A. HUSON

Art Unit

1791

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 24 July 2008.
2a) ☒ This action is **FINAL**. 2b) ☒ This action is non-final.
3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-13 and 15-19 is/are pending in the application.
4a) Of the above claim(s) _____ is/are withdrawn from consideration.
5) ☐ Claim(s) _____ is/are allowed.
6) ☒ Claim(s) 1-13 and 15-19 is/are rejected.
7) ☐ Claim(s) _____ is/are objected to.
8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
10) ☒ The drawing(s) filed on 05 May 2004 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3) ☐ Information Disclosure Statement(s) (PTO/S508)
Paper No(s)/Mail Date _____
4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date _____
5) ☐ Notice of Informal Patent Application
6) ☐ Other: _____

DETAILED ACTION

This office action is in response to the Amendment filed 24 July 2008.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 1-2 and 5-7 are rejected under 35 U.S.C. 103(a) as being unpatentable over Stevenson et al. (U.S. Patent 5,746,961), in view of Asato et al. (U.S. Patent 5,030,681). Regarding Claims 1-2, and 5, Stevenson et al., hereafter "Stevenson," show that it is known to carry out a method of manufacturing a high surface energy molded article with an injection mold having an inner surface (Abstract), the method comprising: spraying a coating solution to the inner surface of the injection mold (Abstract; Column 3, lines 8-9; Column 4, lines 66-67); introducing a thermoplastic resin having a temperature on the coating in the injection mold, the thermoplastic resin having a predetermined heat energy, to transfer at least a portion of the heat energy of the thermoplastic resin to the coating (Column 2, lines 59-62; it is interpreted that the resin will implicitly be introduced at an appropriate molding temperature, such as that which is claimed); defining a molded article having a surface (Column 3, lines 10); and maintaining contact of the thermoplastic resin and the coating for a predetermined time period to diffuse the coating through at least a portion of the surface of the molded article (Abstract; Column 7, lines 4-10). Stevenson does not show using a chlorinated polyolefin coating. Asato et al., hereafter "Asato," show that it is known that a coating of chlorinated polyolefin increases surface energy for enhanced adhesion (Abstract; Column 2, lines 18-26). It would have been prima facie obvious to one of ordinary skill in the art at the time the invention was made to use Asato's particular coating during Stevenson's molding process in order to impart the desired adhesion and stability to the final molded article (See Asato, Abstract; Column 2, lines 7-17).

Regarding Claims 6-7, Stevenson shows the process as claimed as discussed in the rejection of Claim 1 above, including a method wherein an electrically conductive substance of nickel is also applied to the inner surface of the mold (Column 4, line 53), meeting applicant's claim.

Claims 3-4, 8-13, and 15 are rejected under 35 U.S.C. 103(a) as being unpatentable over Stevenson and Asato, further in view of Pettit, Jr. et al. (U.S. Patent 4,937,288).

Regarding Claims 3-4, Stevenson shows the process as claimed as discussed in the rejection of Claim 1 above, but he does not show electrically charging the particles. Pettit, Jr., et al., hereafter "Pettit, Jr." show that it is known to carry out a method of coating, including applying an electrical charge to the plurality of powder particles of the coating and electrically grounding the article to be coated (Column 15, lines 34-36). It would have been prima facie obvious to one of ordinary skill in the art at the time the invention was made to use Pettit, Jr.'s electrical charging steps during Stevenson's spraying process because electrostatic spraying is known as a feasible method for applying a coating to a substrate.

Regarding Claims 8-11, Stevenson et al., hereafter "Stevenson," show that it is known to carry out a method of manufacturing a high surface energy molded article with an injection mold having an inner surface (Abstract), the method comprising: spraying a coating solution to the inner surface of the injection mold (Abstract; Column 3, lines 8-9; Column 4, lines 66-67); introducing a thermoplastic resin having a temperature on the coating in the injection mold, the thermoplastic resin having a predetermined heat energy, to transfer at least a portion of the heat energy of the thermoplastic resin to the coating (Column 2, lines 59-62; it is interpreted that the resin will implicitly be introduced at an appropriate molding temperature, such as that which is claimed); defining a molded article having a surface (Column 3, lines 10); and maintaining contact of the thermoplastic resin and the coating for a predetermined time period to diffuse the coating through at least a portion of the surface of the molded article (Abstract; Column 7, lines 4-10). Stevenson does not show using a chlorinated polyolefin coating. Asato

et al., hereafter "Asato," show that it is known that a coating of chlorinated polyolefin increases surface energy for enhanced adhesion (Abstract; Column 2, lines 18-26). It would have been prima facie obvious to one of ordinary skill in the art at the time the invention was made to use Asato's particular coating during Stevenson's molding process in order to impart the desired adhesion and stability to the final molded article (See Asato, Abstract; Column 2, lines 7-17). Stevenson does not show electrically charging the particles. Pettit, Jr., et al. show that it is known to carry out a method of coating, including applying an electrical charge to the plurality of powder particles of the coating and electrically grounding the article to be coated (Column 15, lines 34-36). It would have been prima facie obvious to one of ordinary skill in the art at the time the invention was made to use Pettit, Jr.'s electrical charging steps during Stevenson's spraying process because electrostatic spraying is known as a feasible method for applying a coating to a substrate.

Regarding Claims 12-13, Stevenson shows the process as claimed as discussed in the rejection of Claim 8 above, including a method wherein an electrically conductive substance of nickel is also applied to the inner surface of the mold (Column 4, line 53), meeting applicant's claim.

Regarding Claim 15, Stevenson shows the process as claimed as discussed in the rejection of Claim 8 above, but he does not show the particular surface energy of the claimed invention. However, since Stevenson, Asato, and Pettit, Jr. teach the claimed process, then the resulting product would have a surface energy of at least 38 dynes per centimeter after the step of removing the molded article from the mold. Further, because Asato teaches improved adhesion of chlorinated polyolefin coatings, it is submitted that Stevenson and Asato suggest the improved surface energy of at least 38 dynes/cm.

Claims 16-17 are rejected under 35 U.S.C. 103(a) as being unpatentable over Stevenson and Pettit, Jr.. Regarding Claims 16-17, Stevenson shows that it is known to carry out a method of manufacturing a high surface energy molded article with an

injection mold having an inner surface (Abstract), the method comprising: spraying a coating solution to the inner surface of the injection mold (Abstract; Column 3, lines 8-9; Column 4, lines 66-67); introducing a thermoplastic resin having a temperature on the coating in the injection mold, the thermoplastic resin having a predetermined heat energy, to transfer at least a portion of the heat energy of the thermoplastic resin to the coating (Column 2, lines 59-62; it is interpreted that the resin will implicitly be introduced at an appropriate molding temperature, such as that which is claimed); defining a molded article having a surface (Column 3, lines 10); and maintaining contact of the thermoplastic resin and the coating for a predetermined time period to diffuse the coating through at least a portion of the surface of the molded article (Abstract; Column 7, lines 4-10). Stevenson does not show electrically charging the particles. Pettit, Jr., shows that it is known to carry out a method of coating, including applying an electrical charge to the plurality of powder particles of the coating and electrically grounding the article to be coated (Column 15, lines 34-36). It would have been prima facie obvious to one of ordinary skill in the art at the time the invention was made to use Pettit, Jr.'s electrical charging steps during Stevenson's spraying process because electrostatic spraying is known as a feasible method for applying a coating to a substrate.

Claims 18-19 are rejected under 35 U.S.C. 103(a) as being unpatentable over Stevenson and Pettit, Jr., further in view of Asato. Regarding Claims 18-19, Stevenson shows the process as claimed as discussed in the rejection of Claim 17 above, including a method wherein an electrically conductive substance of nickel is also applied to the inner surface of the mold (Column 4, line 53), but he does not show using a chlorinated polyolefin coating. Asato shows that it is known that a coating of chlorinated polyolefin increases surface energy for enhanced adhesion (Abstract; Column 2, lines 18-26). It would have been prima facie obvious to one of ordinary skill in the art at the time the invention was made to use Asato's particular coating during Stevenson's molding process in order to impart the desired adhesion and stability to the final molded article (See Asato, Abstract; Column 2, lines 7-17).

Response to Arguments

Applicant's arguments, see the paper, including the 131 Declaration, filed 24 July 2008, with respect to the rejection(s) of claim(s) 1-13 and 15-19 under Stevenson (PGPub) have been fully considered and are persuasive. Therefore, the rejection has been withdrawn. However, upon further consideration, a new ground(s) of rejection is made in view of Stevenson, as noted above.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to MONICA A. HUSON whose telephone number is (571)272-1198. The examiner can normally be reached on Monday-Friday 7:00am-4:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Christina Johnson can be reached on 571-272-1176. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Monica A Huson
Primary Examiner
Art Unit 1791

/Monica A Huson/
Primary Examiner, Art Unit 1791